

117015



NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
State Capitol  
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1976

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: F76001
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>159,196 Tons</u> (Specify Units)  Delivered Cost of fuel <u>\$5.81/Ton</u> (\$/Unit Quantity)	Type <u>Natural Gas</u> Quantity per year <u>None</u> (Specify Units)  Delivered Cost of fuel <u>N.A.</u> (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	9.95 5.55 7.23	
PERCENT SULFUR Max. Min. Avg.	0.98 0.44 0.75	
BTU PER UNIT Max. Min. Avg.	7210 6730 6995	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>N.A.</u>		Type <u>Lignite</u>	Type <u>N.A.</u>
	Units <u>Tons</u>	Units <u>      </u>		Units <u>Tons</u>	Units <u>      </u>
Jan.	16,163		July	11,054	
Feb.	15,581		Aug.	13,468	
March	16,978		Sept.	8,605	
April	15,723		Oct.	13,578	
May	1,668		Nov.	15,877	
June	14,236		Dec.	16,265	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>N.A.</u> Units <u>      </u>
Maximum	23.3	
Average	21.4	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season January & August  
(Specify Months of Year)

Total Hours Per Year 7433.3 (1976)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	4.6	17
Sulfur Dioxide	420	1561
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate data is based on tests run in October, 1976.  
Sulfur dioxide data is based on tests run in August, 1972.  
No tests have been run for nitrogen oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus  
Title Ass't. Manager, Power Production Phone (701) 224-3000

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Earl F. Backhaus Date Feb. 15, 1977